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Inventor(s):

Ch: SQUAYS : Group Art Unit: 1755

For: and Other Materials
Treated Bauxite Tailings
for Making Same : Examiner: Marcantoni, Paul D.

Serial: 11/729 :

Filed: :

AMENDMENTS TO SPECIFICATION (37 CFR 1.121b)

Replace the paragraph beginning at page 3, line 22 and continuing to page 4, line 9 with the following new paragraph:

It is noted at this point that there are secondary and tertiary reactions that can and will occur when the acid is added to the somewhat basic slurry. It is for this reason that it is preferable to use a fine slurry as practicable under the prevailing circumstances and (i) to have the slurry in a state of vigorous agitation at the moment of the intromission of an acid. The purpose of which is to diminish the reaction time or, the "time until exposure" of the acid to the potassium compound (sodium hydroxide). Inevitably, some potassium, magnesium and aluminum as well as other elements will be caught up in the process, but not enough in these circumstances to inhibit the goal, which is to remove the sodium hydroxide from the bauxite tailings. The tailing can then be stabilized and subsequently incorporated into the matrix of common construction materials.

place the paragraph beginning at page 5, line 26 and continuing to page 6, line 5 with the following new paragraph:

using sulfuric acid as the primary reagent, and not removing the resulting salts that are formed. In the neutralizing reaction that takes place, save for what is removed by separating the water from the slurry, the remaining sodium sulfate acts as a catalyst for the formation of the ~~carbonaceous~~ carbonaceous crystals that characterize the internal crystalline structure of cementitious cements.


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